



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Richard Elliott
Kokomo Opalescent Company, Inc.
1310 South Market Street
PO Box 2265
Kokomo, IN 46904

05-28-2013

Dear Mr. Richard Elliott:

Re: Inspection Summary Letter
Kokomo Opalescent Company, Inc
Plant ID: 067-00057
Kokomo, Howard County

On April 30, 2013 a representative of the Indiana Department of Environmental Management, Office of Air Quality, conducted an inspection of Kokomo Opalescent Glass Company, Inc, located at 1310 South Market Street in Kokomo, Indiana. This inspection was conducted pursuant to IC 13-14-2-2. For your information, and in accordance with IC 13-14-5, a summary of the inspection is provided below:

Type of Inspection: X Commitment

Results of Inspection: X No violations were observed

Please direct any response to this letter and any questions to Angela Howard at 317-234-3097 or (800) 451-6027 and ask for extension 4-3097 (in Indiana) or by email at ahoward@idem.in.gov, or write to the above address.

Sincerely,

Angela Howard, ES3
Compliance and Enforcement – Section 1
Office of Air Quality

ACES ID 160955

**OFFICE OF AIR QUALITY
FIELD INSPECTION REPORT**

SOURCE: Kokomo Opalescent Glass Co

LOCATION: 1310 S Market St

CITY: Kokomo

COUNTY: Howard

INSPECTION DATE: 4/30/2013

REPORT DATE: 5/01/2013

COMPLAINT INVESTIGATION: ___ YES X NO

COMPLAINT NUMBER:

PLANT ID NUMBER: 067-00057

INSPECTED BY: Angela Howard

TIME IN: 8:57 am

TIME OUT: 9:35 am

REPORTED BY: Angela Howard *AKH*

ACES NUMBER: 160955

ATTAINMENT ___ **NONATTAINMENT** ___: SO₂___ CO___ O₃___ NO₂___ Pb___ PM₁₀___
PM_{2.5}___

PERMIT TYPE: Registration

PERMIT NO: 067-19043-00057

CHECK IF APPLICABLE: NSPS___ NESHAP___ PSD___ OTHER___ (explain)

PERSONS/TITLE INTERVIEWED: Richard Elliott

PHONE: 765-457-8136

EMAIL: eliot@kog.com

OBJECTIVES: Compliance Monitoring Strategy___ Commitment X
Multimedia Screening ___ Surveillance ___
Complaint ___ Other _____

Announced Inspection ___ **Unannounced Inspection** X

Were all relevant documents reviewed prior to the inspection: X Yes ___ No

DESCRIPTION OF SOURCE: This source makes colored, stained, and art glass.

BACKGROUND: They received their Registration permit on July 21, 2004. Last inspection was done June 10, 2009 at this time there were no violations observed during the inspection.

PROCESS DESCRIPTION/FINDINGS/OBSERVATIONS:

A. 1. **Process Description:** Glass Process

2. **Equipment:**

One silo, identified as K, containing sand with a maximum throughput rate of 525 pounds per hour, controlled by one (1) baghouse and exhausting at stack K.

One silo, identified as L, containing Feldspar with a maximum throughput rate of 115 pounds per hour, controlled by one (1) baghouse and exhausting at stack L.

One silo, identified as M, containing Soda Ash with a maximum throughput rate of 190 pounds per hour, controlled by one (1) baghouse and exhausting at stack M.

One silo, identified as N, containing Lime with a maximum throughput rate of 31.0 pounds per hour, controlled by one (1) baghouse and exhausting at stack N.

One (1) end loaded bin, containing Dolomite with a maximum throughput rate of 11.5 pounds per hour.

One (1) batch mixer with a maximum throughput rate of 1010 pounds per hour, controlled by a dust collector and exhausting at stack J.

One (1) natural gas fired glass-melting furnace (identified as furnace 8-pot), with a maximum throughput capacity of 285 pounds of glass per hour and a maximum heat input capacity of 7.80 MMBtu per hour.

One (1) natural gas fired glass-melting furnace (identified as furnace 12-pot), with a maximum throughput capacity of 596 pounds of glass per hour and a maximum heat input capacity of 6.81 MMBtu per hour.

One (1) natural gas fired glass-melting furnace (identified as Day Tank), with a maximum throughput capacity of 129 pounds of glass per hour and a maximum heat input capacity of 1.90 MMBtu per hour.

One (1) natural gas-fired glass tempering process (identified as Lehr), with a maximum heat input capacity of 6.00 MMBtu per hour.

One (1) natural gas-fired plate oven with a maximum heat input capacity of 0.002 MMBtu per hour.

Three (3) natural gas-fired pot arch preheat units, with a combined heat input capacity of 0.66 MMBtu per hour.

Twelve (12) natural gas-fired unit heaters (identified as UH1 through UH12), each with a maximum heat input capacity of 0.104 MMBtu per hour.

One (1) spray facility, with a maximum usage rate of 2.51 pounds of tetra-isopropyl titanate per hour.

One (1) sheet roller, with a maximum throughput rate of 870 pounds per hour.

One (1) cut and trim facility, with a maximum throughput rate of 1,235 pounds of glass sheets per hour.

3. Pollutants Emitted: ☐SO₂ ☒NO_x ☐VOC ☒PM ☒PM10 ☐CO ☐HAPS

4. Control Equipment:

Control Equipment/ Identification	Exhaust to:
Baghouse	Atmosphere
Dust Collector	Atmosphere

5. Applicable Rules: 326 IAC 5-1, 326 IAC 6-3, and 326 IAC 2-5.5

6. Observations: The sources main ingredients are in their silos. There were no visible emissions observed during the inspection. None of the silos were being loaded or unloaded; the source gets trucks in about twice a month. It takes them about an hour to blow off silo baghouses so they are used about 2 hours a month. The mixer and the end bin were not in operation during the inspection. The furnace 12-pot, spray facility, sheet roller, and the cut and trim process were all in operation during the inspection. The 3

natural gas-fired pot arch preheat units are only used to bring the melting furnace pots up to heat and it was not in operation at the time of the inspection. Since the 12-pot furnace is so warm most of the time the unit heaters are not used much at this source. The day tank, furnace 8-po, and plate oven were all out of service on this day during the inspection.

Emission Limit/Standard	(a) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3(Temporary Alternative Opacity Limitations), opacity shall meet the following: (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4. (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period. (b) Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), particulate emissions from the three (3) glass melting furnaces, three (3) silos, one (1) end-loading bin, and one (1) sand mixing shall not exceed the pound per hour limit as shown in the table below.		
	Emission Unit	Maximum Throughput Rate	Particulate Emission Limit (lbs/hr)
		(lbs/hour)	(ton/hour)
	Melt Furnace (8 pot)	285	0.14
	Melt Furnace (12-pot)	596	0.30
	Melt Furnace (Day Tank)	129	0.06
	Silo1	525	0.26
	Silo 2	115	0.06
	Silo 3	190	0.10
	Sand Mixing	1010	0.505
The pounds per hour limitation was calculated with the following equation: Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation: $E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour, and P =			

	process weight rate in tons per hour. (c) Pursuant to 326 IAC 6-3-2(e)(2), the particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) and which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply, shall not exceed 0.551 pounds per hour. Therefore, the Silo 4 and end-loading bin shall not exceed 0.551 pounds per hour each.
Prev. Maint. Plan	Prepared: <u>Available on Site</u> Adequate: <u>NA: X</u>
Comp. Resp. Plan	Prepared: <u>Available on Site</u> Adequate: <u>NA: X</u>
Stack Testing Reqmnts	There are no stack testing requirements for this section of the permit.
Comp. Monitoring	There are no compliance monitoring requirements for this section of the permit.
Comp. Determination	There are no compliance determination requirements for this section of the permit.
Recordkeeping	There are no recordkeeping requirements for this section of the permit. Are the required records on site? NA Type of records checked: NA Dates or amount of records check: NA Are records consistent with observations? No records to check
Reporting	Have all required reports been submitted in a timely manner? There are no reporting requirements for this section of the permit. Are reports consistent with observations? NA

7. Compliance Status: There were no violations of air pollution rules or this company's permit observed or determined at the time of the inspection.

8. Additional Comments: None.

GENERAL SOURCE ISSUES:

- | | |
|--|-----|
| 1. Does the permit accurately represent the emission units observed? | Yes |
| 2. Have violations been documented by photographs? | NA |
| 3. Were Pollution Prevention opportunities discussed? | Yes |
| 4. Per the source, are they required to have a Risk Management Plan? | No |
| If yes, does the source have a plan? | NA |
| Have the employees been trained? | NA |
| 5. Has the source submitted an acceptable annual notification? | Yes |

ADDITIONAL COMMENTS: The Annual Notifications have been submitted in a timely manner.

CONCLUSIONS: There were no violations of air pollution rules or this company's permit observed or determined at the time of the inspection.

RECOMMENDATION(S): It is recommended to send this source an inspection summary. Next inspection should be conducted as commitment timeliness requires.

EXIT INTERVIEW: The findings and conclusions were reviewed with Mr. Elliott prior to exiting the source.

**NOTICE OF INSPECTION**

State Form 50890 (R3 / 11-05)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue

Indianapolis, IN 46204-2251

Telephone: (800) 451-6027 or (317) 232-8603

This is to notify you that on April 30 2013 an inspection of Kokomo Opalescent Canary Inc. was conducted by the undersigned representative of the Indiana Department of Environmental Management (IDEM), Office of HA.

Type of Inspection (may include more than one):

☒ COMPLAINT
☐
☐

☐ Complaint
☐ Multi-Media Screening Evaluation
☐ Other

Preliminary Inspection/Screening Findings:

These findings are considered preliminary and identify specific compliance issues discovered during the above-noted inspection that the designated agent of IDEM believes may be a violation of a statute(s), rule(s) or permit(s) issued by IDEM.

Single Media Inspection:

- ☒ No violations were discovered with respect to the particular items observed during the inspection.
☐ Violations were discovered but corrected during the inspection.
☐ Violations were discovered and require a submittal from you and/or follow-up inspection by IDEM.
☐ Violations were discovered and may subject you to an appropriate enforcement response.
☐ Additional information/review is required to evaluate overall compliance.
☐ Other / Comments (attachment may be included)

Multi-Media Screening (Please note that a multi-media screening is not a comprehensive evaluation of the compliance status of the facility):

- ☒ Multi-media screening not conducted.
☐ No violations were discovered with respect to the limited multi-media screening conducted by IDEM.
☐ Potential violations were discovered but corrected during the inspection.
☐ Potential violations were discovered and may be further investigated.

Pollution Prevention:

Pollution prevention is the preferred means of environmental protection in Indiana. The goal of pollution prevention is to promote changes in business and commercial operation, especially manufacturing processes, so that Indiana businesses increase productivity, generate less environmental wastes, reduce their regulatory responsibilities and become more profitable. Your participation in Indiana's pollution prevention program is entirely voluntary. If you have any pollution prevention questions, you may contact our Office of Pollution Prevention and Technical Assistance (OPPTA) at (317) 232-8172 or (800) 988-7901, or visit OPPTA's Web site at www.idem.IN.gov/oppta/p2/. Would your company like to be contacted by IDEM's Office of Pollution Prevention and Technical Assistance? ☐ Yes ☒ No

Compliance Assistance:

In addition to the compliance assistance offered by IDEM's individual programs, IDEM's Compliance and Technical Assistance Program (CTAP) offers free, confidential compliance assistance to regulated entities, including small businesses and municipalities, throughout Indiana. In the future, if you would like to request free, confidential compliance assistance, call (317) 232-8172 or (800) 988-7901, or visit CTAP's Web site at www.idem.IN.gov/ctap.

A summary of violations and concerns noted during the inspection was verbally communicated to the undersigned representative during the inspection. The facility should correct any violations noted as soon as possible. Violations identified and corrected during the inspection may still be cited as violations.

A written inspection summary will be provided within 45 days. In accordance with IC 13-14-5-4, matters not evident to IDEM at the time of the inspection might not be included in either the verbal or written inspection summary.

IDEM Representative:

Printed Name	Signature	Phone Number	Date	Time
Angelatteward	<i>[Signature]</i>	317-234-3897	4/30/13	In: 8:52 Out: 9:35

Owner/Agent Representative:

Printed Name	Signature	Title	Phone Number	Date
Richard Elliott	<i>[Signature]</i>	President	765-857-8136	30 Apr 2013

DISTRIBUTION: White – IDEM Public File; Canary – Office of Pollution Prevention and Technical Assistance [if OPPTA assistance is requested] or IDEM Representative (i.e., inspector) [if OPPTA assistance is not requested]; Pink – Owner/Agent Representative